

## ABSTRACT

A carbon monoxide (CO) detection unit incorporates a sensor which is a film or layer of  $\text{Ni}_x\text{Co}_{1-x}\text{O}_y$  where  $x$  is from 0.1 to 0.9, e.g., spinel. The CO is detected by measuring the change in the electrical properties of the sensor. The detector can  
5 measure CO concentrations below 100 ppm and is capable of operating at room temperature and can be applied to domestic, industrial, medical and vehicular use.